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Quality Engineering Test Report

SERIES: SPR01N 1W REGULATED SINGLE OUTPUT DC-DC CONVERTER

SAMPLE: A.SPR01N-05 +5VDC / 200mA
C.SPR01N-15 +15VDC / 67mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 21.6~26.4VDC O/P:FULL LOAD	C:20~26.4VDC	P
2	LINE REGULATION	I/P: 21.6~26.4VDC SPEC: ±1% O/P: FULL LOAD	A:-0%~+0.2% C:-0.2%~+0.6%	P
3	LOAD REGULATION	I/P: 24VDC SPEC: ±1% O/P:20% TO FULL LOAD	A:-0%~+0.4% C:-0%~+0.6%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 21.6~26.4VDC SPEC: NONE O/P:20% TO FULL LOAD	A:-0%~+0.4% C:-0.2%~+0.6%	P
5	RIPPLE&NOISE	I/P: 24VDC SPEC: 100mV O/P:FULL LOAD	A:20mV C:20mV	P
6	DC INPUT CURRENT	I/P: 24VDC SPEC: NONE O/P:FULL LOAD	C:60mA	P
7	OVER LOAD PROTECTION	I/P：24VDC SPEC： NONE O/P：TESTING	A:200% C:136%	P
8	O/P VOLTAGE ACCURACY	I/P: 24VDC SPEC: ±2%(MAX.) O/P:FULL LOAD	A:+0.6% C:-0.3%	P
9	SET UP TIME	I/P:24VDC SPEC: NONE O/P:FULL LOAD	C:32.2mS	P
10	EFFICIENCY	I/P: 24VDC SPEC: 75%(TYPICAL) O/P:FULL LOAD	A:69.7% C:69.0%	P
11	INSULATION RESISTANCE	SPEC:I/P-O/P 500VDC/100M Ohms MIN.	C:I/P-O/P >100M Ohms	P
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P- O/P: 1000VDC/ 1 min (10mA CUT-OFF)	C:NO BREAK I/P-O/P :<0.02mA	P
13	BURN-IN TEST	I/P:24VDC O/P:FULL LOAD TA:26° C BURN-IN DURATION : 4 hrs	C:NO BREAK	P
14	TEMPERATURE RISE TEST T rise OF PARTS	C:I/P :24VDC AFTER 4 hrs BURN-IN O/P :FULL LOAD TA:26° C		P

POSITION	SAMPLE	TEMP	T rise
CASE	SUS01N-15	38.7° C	12.7° C

15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 先以軌道型塑膠包裝,再以紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD PLASTIC CASE 4. DIMENSIONS : WXHXD=22.6X8.4X9.9mm, PIN : 3.8mm

DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
2000.2.18	SPR01N-05 SPR01N-15	PASS	T.K.CHENG	PASS